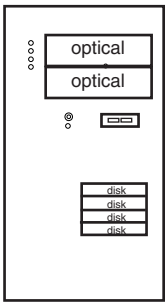
ThinkServer™ TD230 (1029) - TopSeller (March 2011)

Name	Type-model	Slot x bay	Processor(s)	GHz	Cores	Memory DIMMs	Disk(s)	Disk size	Disk bays	Disk Controller	Disk type	RAID Int	System mgmt	Avail date
TD230	1029-15U	5 x 7	1 x E5603	1.60	4	1 x 2GB	None	3.5"	5 x Direct Cable	ICH10R	SATA	0/1/10	IPMI	Mar 11
TD230	1029-16U	5 x 7	1 x E5606	2.13	4	1 x 2GB	None	3.5"	5 x Direct Cable	ICH10R	SATA	0/1/10	IPMI	Mar 11
TD230	1029-17U	5 x 6	1 x E5606	2.13	4	1 x 2GB	None	3.5"	4 x Hot-swap	ICH10R	SATA	0/1/10	IPMI	Mar 11
TD230	1029-18U	5 x 6	1 x E5607	2.26	4	1 x 4GB	None	3.5"	4 x Hot-swap	ICH10R	SATA	0/1/10	IPMI	Mar 11
TD230	1029-1AU	5 x 6	1 x E5645	2.40	6	1 x 4GB	None	3.5"	4 x Hot-swap	ICH10R	SATA	0/1/10	IPMI	Mar 11
TD230	1029-19U	5 x 6	1 x E5620	2.40	4	1 x 4GB	None	3.5"	4 x Hot-swap	9240-8i(v2)+Upgrade	SATA/SAS	0/1/5/10	KVM	Mar 11
TD230	1029-1BU	5 x 6	1 x E5645	2.40	6	1 x 4GB	None	3.5"	4 x Hot-swap	9240-8i(v2)+Upgrade	SATA/SAS	0/1/5/10	KVM	Mar 11

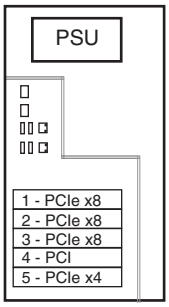
- ***These models have a 3-year limited warranty***[1]

Processor(s)	Up to two processors, one processor standard, **Intel® Xeon® Processor E5603** with **quad-core**, 4.8GT/s (giga-transfers/second) QPI (QuickPath Interconnect), Intel 64, Virtualization Technology, 1066MHz DDR3 memory controller, and 4MB cache or **Intel Xeon Processor E5606** with **quad-core**, 4.8GT/s QPI, Intel 64, Virtualization Technology, 1066MHz DDR3 memory controller, and 8MB cache or **Intel Xeon Processor E5607** with **quad-core**, 4.8GT/s QPI, Intel 64, Virtualization Technology, 1066MHz DDR3 memory controller, and 8MB cache or **Intel Xeon Processor E5620** with **quad-core**, 5.86GT/s QPI, Intel 64, Hyper-Threading Technology, Virtualization Technology, Turbo Boost Technology, 1066MHz DDR3 memory controller, and 12MB cache or **Intel Xeon Processor E5645** with **six-core**, 5.86GT/s QPI, Intel 64, Virtualization Technology, 1333MHz DDR3 memory controller, and 12MB cache
Implementation	Two LGA1366 sockets
Memory	**2GB** or **4GB** std, 32GB max (16GB per processor), **RDIMM**, **PC3-10600 1333MHz DDR3***, **ECC**, **Memory Mirroring**, eight 240-pin DIMM sockets**, * System automatically clocks down for processors with 1066MHz DDR3 memory controller ** Over four DIMMs requires dual processors
Graphics	Onboard ServerEngines™ Pilot II graphics/management controller, one VGA DB-15 on rear, 32MB; *Maximum resolution:* 1600x1200@52Hz
Disk bays	*Some:* Five 3.5" SATA disk bays, no hot-swap, direct cable (DC) *Some:* Four 3.5" hot-swap (HS) SATA disk bays
Disk controller	*Some:* Serial ATA, SATA 3.0Gb/s, integrated in ICH10R, RAID[8] 0, 1, 10 support *Some:* ThinkServer SAS 9240-8i v2, PCI Express® bus, SATA 6.0Gb/s, SAS 6.0Gb/s, RAID 0, 1, 10 support *Some:* Additional upgrade key for 9240-8i v2, add RAID 5 support *DC Model(s):* Six SATA connectors for opticals and disks
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
Diskette	None (use USB port)
Ethernet	Two Gigabit Ethernet ports, Intel 82574L and 82567
Chipset	**Intel 5500 Chipset**, Intel I/O Hub (IOH) for PCI Express slots 1-3 (see right) and links to 82574L, enterprise south bridge interface (ESI) to Intel I/O Controller Hub 10 RAID (ICH10R) for USB, slots 4-5, onboard SATA controller, and links to 82567
Extender card	None
Front ports	Two USB 2.0
Rear ports	Four USB 2.0, external monitor (VGA DB-15), serial (9-pin), two ethernet (RJ-45)
Internal ports	One USB 2.0 connector for optional tape drive
Diagnostics	System status LEDs on front, Diagnostic LEDs on rear
Systems mgmt	Onboard ServerEngines Pilot II graphics/management controller *IPMI model(s):* IPMI 2.0-compliant baseboard management controller (BMC) *KVM model(s):* IPMI functions ***PLUS*** KVM, ThinkServer Remote Management Module 3, supports one additional ethernet port
Prerequisites	Monitor, disk, OS
Keyboard	None (use USB port)
Mouse	None (use USB port)
Power supply(s)	One fixed 625 watts standard, universal, 80 PLUS® Bronze qualified
Cooling	Five fans std (power supply, two front, one rear, first processor), one optional processor fan for second processor

Front - (Hot-swap)



Rear



- Tower mechanical
- Business black color; metal case
- 8.3"W x 20.1"D x 18.5"H
- 210mm W x 510mm D x 470mm H
- 57.6 lb (26.2kg) max configuration
- Toolless side cover removal
- Toolless optical drive removal

Hot-swap model(s):

Bay 1	5.25",	1.6" high,	external,	std optical
Bay 2	5.25",	1.6" high,	external,	optional optical
Bay 3	3.5",	1" high,	external,	optional disk
Bay 4	3.5",	1" high,	external,	optional disk
Bay 5	3.5",	1" high,	external,	optional disk
Bay 6	3.5",	1" high,	external,	optional disk

Direct cable model(s):

Bay 1	5.25",	1.6" high,	external,	std optical
Bay 2	5.25",	1.6" high,	external,	optional optical
Bay 3	3.5",	1" high,	external,	optional disk
Bay 4	3.5",	1" high,	external,	optional disk
Bay 5	3.5",	1" high,	external,	optional disk
Bay 6	3.5",	1" high,	external,	optional disk
Bay 7	3.5",	1" high,	external,	optional disk

Slot 1: half-length, full-height, PCI Express 2.0 x8
Slot 2: half-length, full-height, PCI Express 2.0 x8
Slot 3: half-length, full-height, PCI Express 2.0 x8***
Slot 4: half-length, full-height, 32-bit PCI 2.3
Slot 5: half-length, full-height, PCI Express x4
*** x4 electrical

Power-On Hotkey

- Setup Utility: F2 at startup
- Network Boot: F12 at startup
- ICH10R RAID: Ctrl+E at startup

Software Management Tools

- ThinkServer EasyStartup

Security

- Administrator password
- User password
- Front panel lock out
- Boot sequence control
- Boot without keyboard, mouse, diskette
- Serial port I/O control
- USB port disablement (all)

RoHS-compliant

See footnotes for important warranty information

☞ US models announced March 15, 2011; previous models on March 1, 2011

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